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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,768	09/15/2003	Randy Wickman	7385-88348	1482
24628 75	590 10/18/2005		EXAMINER	
WELSH & KATZ, LTD			MOONEY, MICHAEL P	
120 S RIVERS	IDE PLAZA			
22ND FLOOR			ART UNIT	PAPER NUMBER
CHICAGO, IL	60606		2883	

DATE MAILED: 10/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
, ,	10/662,768	WICKMAN, RANDY	
Office Action Summary	Examiner	Art Unit	
	Michael P. Mooney	2883	
The MAILING DATE of this commun	nication appears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE M - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this com If NO period for reply is specified above, the maximum s - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF THIS COMMUN s of 37 CFR 1.136(a). In no event, however, may a munication. tatutory period will apply and will expire SIX (6) MO y will, by statute, cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) file This action is FINAL. Since this application is in condition closed in accordance with the pract 	2b)⊠ This action is non-final. I for allowance except for formal ma	-	
Disposition of Claims		,	
4)⊠ Claim(s) <u>1-28</u> is/are pending in the 4a) Of the above claim(s) is/a 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1-28</u> is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restri	are withdrawn from consideration.		
Application Papers			
9) The specification is objected to by the specification is objected to by the specific speci	ection to the drawing(s) be held in abeyong the correction is required if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
2. Certified copies of the priority3. Copies of the certified copies	documents have been received. documents have been received in of the priority documents have bee onal Bureau (PCT Rule 17.2(a)).	Application No In received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (F3) Information Disclosure Statement(s) (PTO-1449 or	PTO-948) Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other: _	· · · · · · · · · · · · · · · · · · ·	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-28 rejected under 35 U.S.C. 103(a) as being unpatentable over Trezza et al. (20040213538).

Trezza et al. teaches an apparatus for guiding an optical beam progressing along an axis of transmission defined by an optical converter, such apparatus comprising: a silicon wafer assembly disposed in the axis of transmission of the optical converter with a predominant plane of the substrate disposed perpendicular to the axis of transmission and so that the optical beam passes directly through the silicon wafer assembly; and a plurality of refracting or reflecting elements adapted to reflect the optical beam disposed around the axis of transmission within a body of the silicon wafer assembly

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Although Trezza et al. does not expressly state "optically transparent substrate" it would have been obvious to do so because a silicon wafer assembly as described at e.g., Trezza et al. paragraph 0134, is conventionally known to be optically transparent and in a configuration such as that shown at figure 22D is conventionally known to be a substrate.

One of ordinary skill in the art would have been motivated to expressly call a configuration such as the one shown in Trezza et al. fig. 22D an "optically transparent substrate" for the purpose of describing an apparatus/assembly with appropriate art-recognized terminology.

Thus claim 12 is rejected.

Trezza et al. teaches further comprising defining the optically transparent substrate as a mounting substrate (e.g., paragraphs 140-141). Thus claim 13 is rejected.

Trezza et al. teaches further comprising defining the optically transparent substrate as an auxiliary substrate (e.g., paragraphs 140-141; fig. 22D). Thus claim 15 is rejected.

Trezza et al. teaches further comprising the optical converter mounted to a mounting substrate so that the axis of transmission passes directly through the mounting substrate (e.g., paragraphs 140-141; fig. 22D). Thus claim 16 is rejected.

Trezza et al. teaches further comprising the mounting substrate juxtaposed with the auxiliary substrate (e.g., paragraphs 140-141; fig. 22D). Thus claim 17 is rejected.

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Trezza et al. teaches further comprising defining the plurality of refracting or reflecting elements as apertures within the optically transparent substrate (e.g., paragraphs 134-141; fig. 22D). Thus claim 18 is rejected.

Trezza et al. teaches further comprising the plurality of apertures filled with a material with a lower index of refraction than the optically transparent substrate (e.g., paragraphs 134-141; fig. 22D). Thus claim 19 is rejected.

Trezza et al. teaches further comprising the plurality of apertures filled with a reflective material (e.g., paragraphs 134-141; fig. 22D). Thus claim 20 is rejected.

Trezza et al. teaches further comprising the plurality of refracting or reflective elements disposed in a circle around the axis of transmission defined by the optical converter (e.g., paragraphs 134-141; fig. 22D). Thus claim 21 is rejected.

Trezza et al. teaches further comprising the plurality of refractive or reflective elements disposing in a square around the axis of transmission defined by the optical converter (e.g., paragraphs 134-141; fig. 22D). Thus claim 22 is rejected.

Trezza et al. teaches further comprising the plurality of refractive or reflective elements disposing in a octagon around the axis of transmission defined by the optical converter (e.g., paragraphs 134-141; fig. 22D). Thus claim 23 is rejected.

Trezza et al. teaches further comprising the plurality of refractive or reflective elements disposing in a random array around the axis of transmission defined by the optical converter (e.g., paragraphs 134-141; fig. 22D). Thus claim 24 is rejected.

By the reasons and references given above each and every element of each ofclaims 1-11 and 25-28 is rendered obvious (e.g., paragraphs 134-141; fig. 22D). Thus

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claims 1-11 and 25-28 are rejected. If Applicant disagrees with this obviousness holding, then Applicant should submit evidence showing this obviousness holding is errant. Examiner will then consider restricting the apparatus claims from the method claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P.-Mooney whose telephone number is 571-272-2422. The examiner can normally be reached during weekdays, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-

1562.

Michael P. Mooney

Examiner

Art Unit 2883

Frank G. Font

Supervisory Patent Examiner

& St Fo

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FGF/mpm 10/17/05